



















#### 4. C o n c l u s i o n s

The DSLP-method is the first “echo sounder” method that permits the measurement of sediment dynamics processes over time intervals varying from seconds to days, and from weeks to months. This capability is based on the high depth-accuracy performance of the DSLP-method combined with the ability to differentiate between and uniquely classify physically classifiable sediment and suspension layers acoustically. On account of the implemented measurement technology and application characteristics of the DSLP-method it is possible to resolve sediment dynamics processes according to requirements. The information content of DSLP-measurements may be enhanced by the inclusion of accompanying measurements such as e.g. flow measurements. As confirmed by the present investigation, the DSLP-method offers new possibilities for measuring the dynamics of sedimentological processes.

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